

Program Description/Textbook or Print Instructional Material

Vendor: Delmar Learning Web Address: www.delmar.com

Title: Electrical Wiring Residential

Author: Mullin Copyright: 2002

ISBN: 0-7668-3285-6 Course/Content Area: Vocational and Career Education; Industrial Technology; Residential/Commercial Electricity

Intended Grade or Level: 9-12 Readability Level: 11.1 (Flesch Kincaid)

List Price: 86.95 Lowest Wholesale Price: 64.75

All materials bid as of July 1, 2003 must be offered in an alternative format for students who require reading accommodations. A description of the levels of accommodation is included on p. 8-9 of this bid packet. The Kentucky Department of Education must receive a copy of the alternative format if the material is placed on the State Multiple List.

Level of Accommodations (Level One, Two or Three) Level Three

If Level Two or Three, please provide rationale for not meeting Level One Compliance It is not financially feasible for our products to meet Level One at this time.

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

- One of the best selling books on residential wiring on the market for more than a decade, Electrical Wiring - Residential features hundreds of examples, calculations, plus full-color wiring diagrams, illustrations, and photos while conforming to the 2002 National Electrical Code (NEC®).
- A complete set of full-size house plans allows readers to gain hands-on experience laying out wiring for receptacles, switches, lighting outlets, and appliances and making service entrance calculations.
- Detailed discussion of arc-fault circuit interrupters, plus type MC cable installation requirements, has been added.

Student Experiences

- When used together with the NEC®, Electrical Wiring - Residential offers its readers an unparalleled, hands-on learning experience.
- A comprehensive Code Cross-Index allows readers to look up information by NEC® section number, facilitating use of the book as a reference by professional electricians, contractors, and inspectors.

Assessment

Electrical Wiring - Residential is a trusted resource for information on all aspects of house wiring, having been adopted as an essential component of numerous national training programs. One of the best selling books on residential wiring on the market for more than a decade, Electrical Wiring - Residential features hundreds of examples, calculations, plus full-color wiring diagrams, illustrations, and photos while conforming to the 2002 National Electrical Code (NEC®). The book explains the Code's new metric numbering system while utilizing both metric and the prevalent English system.

Organization

- The book begins by introducing readers to the basics of wire sizing, load calculations, and wiring diagrams. It then proceeds to address relevant NEC® rules and requirements, room by room, through an entire home.
- Discussion of the unique considerations of wiring a home for the handicapped, as well as an introduction to today's state-of-the-art home automation wiring, is also featured. A useful list of major electrical appliance manufacturers' web sites is provided in an appendix.
- References to building codes that appear strategically throughout the book have been expanded, since many communities have adopted or plan to adopt them.

Resource Materials

Gratis Items To Be Provided And Under What Conditions

Instructor's Manual (0-7668-3286-4) Free 1 per teacher

Available Ancillary Materials

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education.

NOTE: Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate **"not available"** in the space.



**Group V - Career/Technical
Vocational/Practical Living Education
Instructional Materials Evaluation Tool
IE Construction Technology Career Cluster**



Title: Electrical Wiring Residential \$64.75			
Publisher: Delmar Learning			
Item Evaluated: Textbook & Instructor's Guide			
Copyright Date: 2002		Evaluator: Wilson/Tomlinson	
Content Level: 9-12		Date of Evaluation 7/30/03	
Level of Alternative Format	Level 1 – Full Compliance	Level 2 – Provisional Compliance	Level 3 – Marginal Compliance
This section completed by Exceptional Children Services			

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book, material or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions . They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/ Instructional Materials Review Team completed each evaluation form during the week of July 28-Aug. 1, 2003. In order to maintain the integrity of the of the review team's comments, editing was limited to spelling and punctuation.

Recommendations:
<input checked="checked" type="checkbox"/> Recommended by reviewers to State Textbook Commission
<input type="checkbox"/> Not recommended by reviewers to State Textbook Commission

Publisher's Explanation of Reviewer's Comments: By action of the State Textbook Commission, publishers are provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the evaluation.



**Group V - Career/Technical
Vocational/Practical Living Education
Instructional Materials Evaluation Tool
IE Construction Technology Career Cluster**



Title: Electrical Wiring Residential		Publisher Delmar Learning
Technology Management Summary Data:	20 possible points	____0____ points earned
Technology Management Comments:		
Technology Presentation/Interface Summary Data:	36 possible points	____0____ points earned
Technology Presentation/Interface Comments:		
Content Summary Data:	144 possible points	____10____ points earned
Content Comments:		
Instruction & Management Summary Data	52 possible points	____36____ points earned
Instruction & Management Comments:		
Organization & Structure Summary Data	36 possible points	____32____ points earned
Organization & Structure Comments:		
Resource Material Summary Data	40 possible points	____21____ points earned
Resource Material Comments:		



Group V - Career /Technical & Vocational/Practical Living

Electronic Instructional Media Review Form

Stand Alone/Independent or Integrated Software for IE Construction Technology Career



Equipment (circle or change fill color)	Grade Level (circle or change fill color)	Audience (circle or change fill color)	Format (circle or change fill color)	Cost _____	
Windows	Primary	Individual	Stand Alone/Independent	_____ single copy	_____ site license
Macintosh	Intermediate	Small Group	Integrated	_____ network version	_____ school version
CD-ROM	Middle	Large Group	Supplemental	_____ lab pack of _____ copies	_____ online
DVD	High		In lieu of basal test		
Sound					
Other					

If other, explain

Type of Software: Check all that apply	_____ Simulation	_____ Management	_____ Interdisciplinary	_____ Problem Solving	_____ Tutorial
_____ Exploratory	_____ Creativity	_____ Drill and Practice	_____ Critical Thinking	_____ Utility	_____ Other:

Rating Scale:	3—Some of the time	1—None of the time
4—All or the time	2—Minimally	0— Not applicable

Management	Rating
Allows customizing for individual learning needs.	
Allows students to exit and resume at a later time.	
Keeps a students performance record, where needed.	
Allows control of various aspects of the software (e.g., turning sound off).	
Allows for printed reports.	
Comments:	Total
	0

Presentation/Interface	Rating
Presents material in an organized manner.	
Has consistent, easy-to-use, on-screen instructions.	
Has developmentally correct presentation format.	
Adapts to different learning environments (learning styles/multiple intelligences, etc.)	
Accessible for special needs students.	
Runs smoothly, without long delays.	
Presents easy-to-view text and graphics.	
Presents easy-to-hear and understand sounds.	
Avoids unnecessary screens, sounds, and graphics.	
Provides immediate, appropriate feedback.	
Comments:	Total
	0

Content—IE Construction Technology Career Cluster	Rating
Introduction to Masonry	0
Advanced Masonry	0
Masonry Lab	0
Brick Construction	0
Special Techniques in Brick Construction	0
Blueprint Reading in Construction	2
Anchors and Reinforcement	0
Power Tools and Maintenance	0
Site Layout and Foundations	0
Floor and Wall	0
Ceiling and Roof	0
Direct Current Circuits/Lab	0
Alternative Current Circuits/Lab	0
Transformers/Lab	0
Devices and Circuits/ Lab	0
Electrical Drafting	0
National Electrical Code	4
Electrical Construction/Lab	4

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable

Content—IT Technology Career Cluster	Rating
Plumbing Fundamentals/ Lab	0
Technical Communications	0
Fundamentals of Drawing 1 and 2	0
Color Theory Applications	0
Traditional Layout and Graphic Design	0
Screen Printing	0
Computer Graphic Design/Lab	0
Computer Illustration/Lab	0
Electrical/Electronic Safety	0
Direct Current Circuits/Lab	0
Alternating Current/Lab	0
Electrical Circuit Analysis	0
Electronic Drafting	0

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable

Content—IT Technology Career Cluster	Rating
Microcomputer Operating Systems	0
Basic Drafting 1 and 2	0
CAD	0
Basic Blueprint Reading	0
Pictorial Drawing	0
Illustration Techniques and Working Drawings	0
Basic Welding and Industrial Drafting Processes	0
Threads and Fasteners/Gears and Cams/Pipe Drafting	0
Comments:	Total 10

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable

Instruction and Assessment	Rating
Identifies a Sense of Purpose	4
Builds on Student Ideals	4
Engages Students	4
Develops Computer Maintenance Ideas	0
Promotes Student Thinking	4
Assesses Student Progress	2
Enhances The Learning Environment	4
Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.	2
Commonwealth Accountability Testing System (CATS) "like" Assessment is provided	1
Variety of Assessments (diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer performance, portfolio prompts) is included.	2
Includes activities and opportunities for integration of technology.	2
Reflects researched-based practices (e.g. hands-on activities, technology, problem-solving situations)	4
Differentiation techniques and activities suggested.	3
Comments:	Total 36

Rating Scale:	3 – Some potential for learning	1 - Not present
4 – High potential for learning	2 – Little potential for learning	0 – Not applicable

Organization and Structure	Rating
Organization is logical and allows for spiraling of content.	4
Vocabulary and key terms are clearly defined and easily accessible within each lesson.	4
Visual illustrations (e.g. graphs, charts, models) and examples are clearly presented and content-related.	4
Illustrations and language reflect diversity (e.g. racial, ethnic, cultural, age, gender, disabilities).	1
Legible type, length of lines, spacing, and page layout and width of margins contribute to overall appearance and use.	4
Student materials seem durable and conducive to daily use.	3
Includes sufficient glossary, index and appendices.	4
Employs accurate grammar and spelling	4
Organization of material can be effectively used with Standards Based Units, Core Content and Program of Studies.	4
Comments:	Total 32

Resource Materials	Rating
Teacher materials coordinate easily with student materials (e.g. additional resources included at point of need, student pages shown, integration of technology indicated)	4
Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.	3
Extension activities including adaptations and accommodations for students with special needs.	1
Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections with career and/technology and references (e.g. solution manuals, study guides)	4
Suggestions are made for integration of themes and /or interdisciplinary instruction.	3
Integration opportunities suggested and examples given.	2
Teacher resources are available online.	1
Online resources available – Repeat of information in text.	1
Online resources available – Practice skills only.	1
Online resources available – New application materials.	1
Comments:	Total 21
Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable